Panasonic 3.5" Flexible Disk Drives One Inch High Series



Panasonic Industrial Co. **Memory Systems Division**

Key Features

- Low Profile (only 1.0", 25.4 mm)
- Lightweight: Suitable for portable and desktop equipment as well. Only 440 grams (approximately 1 pound).
- Compatible with industry standard 5.25" floppy interface.
- High performance: access time of 3 msec.

- State of the art: Surface mount technology, newly developed LSI.
- Quiet operation.
- Low power consumption.
- High reliability: Direct drive brushless digitally controlled motor.
- Customer installable options.

Specifications

Performance

		JU-253	JU-257
CAPACITY JFORMATTED	Per Disk	1.0 Mbyte	2.0 Mbytes 1.0 Mbytes
CAP/ UNFOR	Per Track	6.2 Kbytes	12.5 Kbytes 6.2 Kbytes
Tran	sfer Rate	250 Kbits/sec	500/250 Kbits/sec
	Track to Track	3 msec	
ACCESS	Settling Time	15 msec	
ACC	Motor Start 500 msec		300 msec

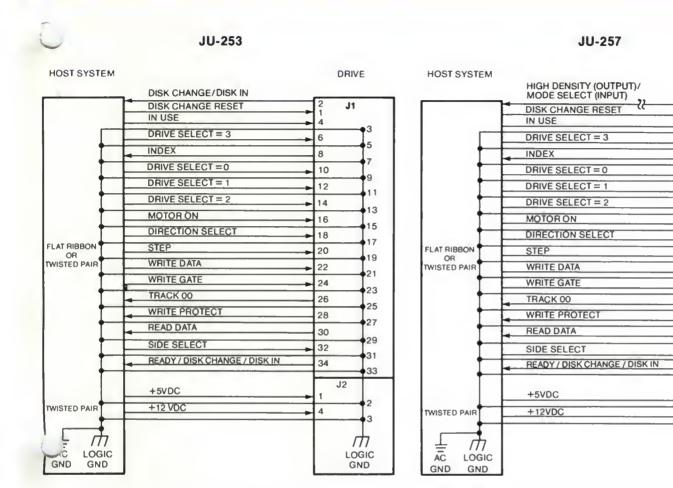
Functional

ROTATIONAL SPEED	300 RPM	300 RPM
RECORDING DENSITY	8717 BPI	17434 BPI 8717 BPI
TRACK DENSITY	135 TPI	
NUMBER OF TRACKS/SIDE	80	
NUMBER OF HEADS	2	
TEMPERATURE (Operating)	5 C to 45 C	
HUMIDITY (Operating)	20% to 80% (Non-condensing)	

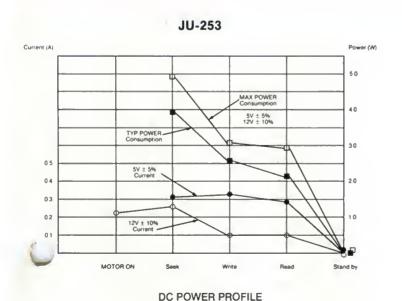
Power Requirements

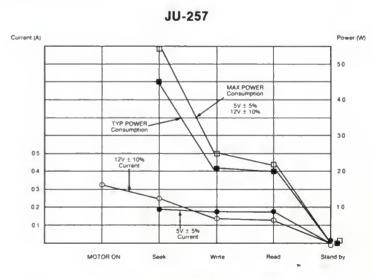
				JU-253	JU-257
	Voltage			12V±10%, max ripple: 100mVp-p	
	12V	Current (Operating)	Seek	0.25A (Max) / 0.21A (Typ)	0.25A (Max) / 0.21A (Typ)
			Read	0.10A (Max) / 0.08A (Typ)	0.12A (Max) / 0.10A (Typ)
TS			Write	0.10A (Max) / 0.08A (Typ)	0.13A (Max) / 0.11A (Typ)
REQUIREMENTS		At motor start		0.22A	0.33A (Max) / 0.30A (Typ)
REN	Voltage			5V±5%, max ripple: 50mVp-p	
	5V	Current (Operating)	Seek	0.31A (Max) / 0.28A (Typ)	0.19A (Max) / 0.17A (Typ)
RE(Read	0.29A (Max) / 0.26A (Typ)	0.18A (Max) / 0.16A (Typ)
ÆR			Write	0.33A (Max) / 0.30A (Typ)	0.18A (Max) / 0.16A (Typ)
DC POWER	Power Dissipation		Seek Motor/ Start	4.9W (Max) / 3.9W (Typ)	5.4W (Max) / 4.5W (Typ)
			Read	2.9W (Max)/ 2.3W (Typ)	2.3W (Max) / 2.0W (Typ)
			Write	3.1W (Max) / 2.6W (Typ)	2.5W (Max) / 2.1W (Typ)
			Standby	70mW (Max) / 60mW (Typ)	70mW (Max) / 50mW (Typ)

Interface Connections



Power Consumption





DRIVE

J1

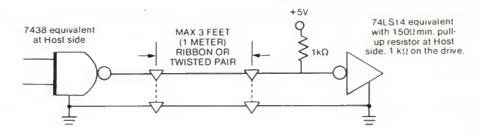
J2

LOGIC

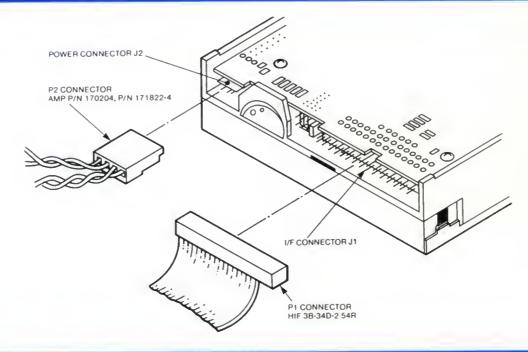
GND

DC POWER PROFILE

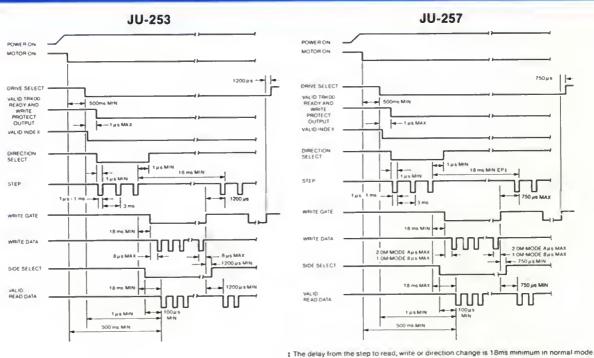
Interface Signal Driver/Receiver



Physical Interface

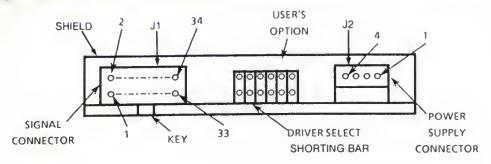


Timing Requirements



Pin Assignments

Rear View

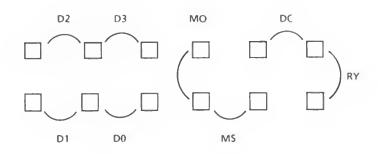


J2 CONNECTOR PIN

1	+5 VDC
2	+5 RETURN
3	+12 RETURN
4	+12 VDC

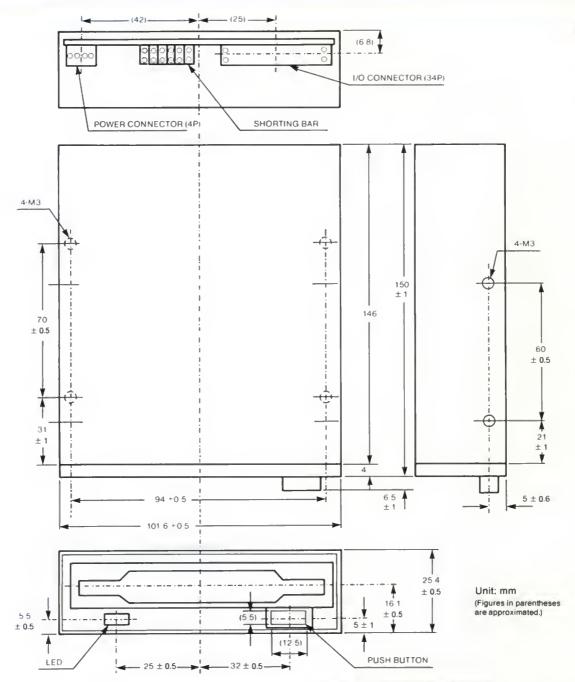
J1/J2 CONNECTOR

Shorting Plug Options



Jumper Designation	Description	Shipped from Factory
D0	DRIVE SELECT 0 input line	Open
D1	DRIVE SELECT 1 input line	Plugged
D2	DRIVE SELECT 2 input line	Open
D3	DRIVE SELECT 3 input line	Open
MO	SPINDLE MOTOR is ON and OFF with MOTOR ON SIGNAL	Plugged
MS	SPINDLE MOTOR IS ON and OFF with DRIVE SELECT SIGNAL	Open
DC	Pin #34 is DISK CHANGE SIGNAL	Plugged
RY	Pin #34 is READY SIGNAL	Open
TM	TM provides termination of 1K Ω on all input lines. "DRIVE SELECT" is always terminated through a 1K Ω pull up resistor regardless of TM.	Plugged

Mechanical Dimensions



NOTE: 1) 32mm high bezels eveileble.
2) 5.25" mounting kit with bezel end edepter kit is elso eveileble.

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